

Amendments To The Specification

Please amend the first paragraph on page 4 as follows:

Referring first to Fig. 1, a system is shown for applying pulsed RF energy in accordance with one embodiment of the invention. An applicator 703, to be described in detail below, contains a pair of RF electrodes and cooling system. The applicator 703 is adapted to be applied to the skin of an individual [705] 710 in the region to be treated. The applicator 703 is connected to a control unit 701 via a cable 702. The control unit 701 includes a power source 708. The power source 708 is connected to an RF generator 705 that is connected to the RF electrodes in the applicator 703 via wires in the cable 702. The control unit 701 contains a cooling system 712 that cools a fluid such as ethanol or water for cooling the applicator 703. The cooled fluid flows from the cooling system 712 to the applicator via a first tube in the cable 702, and flows from the applicator 703 back to the refrigeration unit via a second tube in the cable 702. The control unit 701 has an input system such as a keypad 707 that allows an operator to input selected values of parameters of the treatment, such as the frequency, pulse duration and intensity of the RF energy or the wavelength and intensity of the optical energy. The control unit 701 optionally contains a processor 704 for monitoring and controlling various functions of the system. For example, the processor 704 may

monitor the electrical impedance between the electrodes in the applicator 703, and determine the temperature distribution in the skin in the vicinity of the applicator 703. The processor 704 may also determine the parameters of the treatment based upon the impedance measurements.

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